

# PM2655



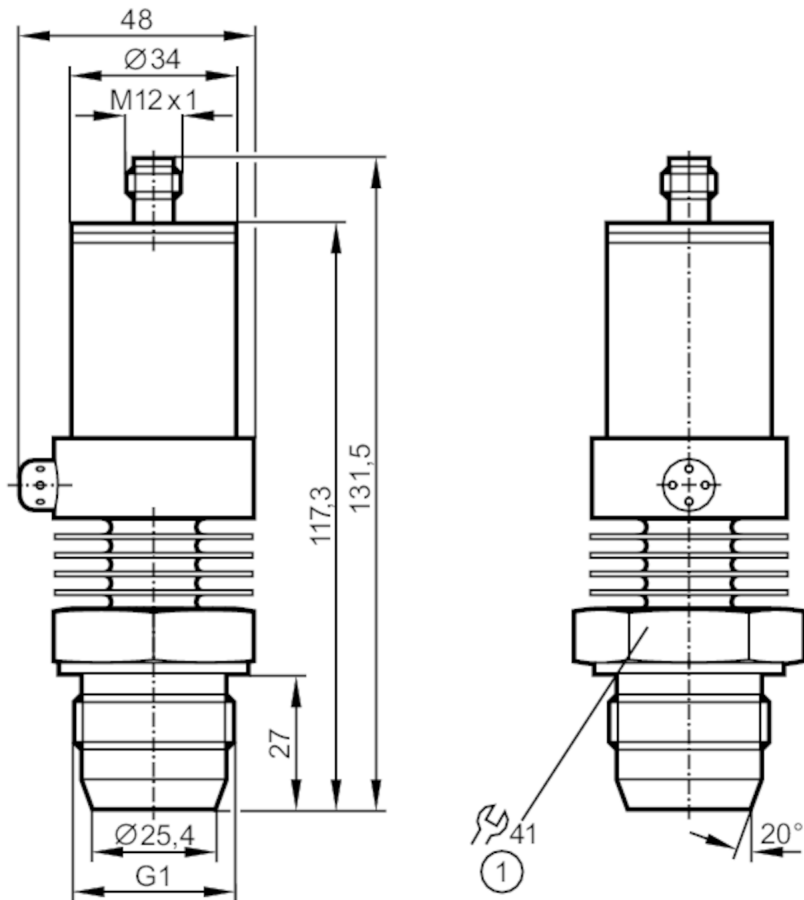
## Flush pressure transmitter

PM-004-REA01-E-ZVG/US/ IP

Article no longer available - archive entry

Alternative articles: PM1605

When selecting an alternative article and accessories please note that technical data may differ!



1 Tightening torque 20 Nm



### Product characteristics

|                              |                                                      |                |               |
|------------------------------|------------------------------------------------------|----------------|---------------|
| Number of inputs and outputs | Number of analog outputs: 1                          |                |               |
| Measuring range              | -0.99...4 bar                                        | -14.4...58 psi | -99...400 kPa |
| Process connection           | threaded connection G 1 external thread sealing cone |                |               |

### Application

|                         |                                                                       |          |           |
|-------------------------|-----------------------------------------------------------------------|----------|-----------|
| System                  | gold-plated contacts                                                  |          |           |
| Application             | flush mountable for the food and beverage industry                    |          |           |
| Media                   | viscous media and liquids with suspended particles; liquids and gases |          |           |
| Medium temperature [°C] | -25...125; (145 max. 1h)                                              |          |           |
| Min. bursting pressure  | 100 bar                                                               | 1450 psi | 10000 kPa |
| Pressure rating         | 30 bar                                                                | 435 psi  | 3000 kPa  |
| Type of pressure        | relative pressure                                                     |          |           |
| No dead space           | yes                                                                   |          |           |



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| Electrical data                    |                        |                                                                                                                      |                  |
|------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------|------------------|
| Operating voltage                  | [V]                    | 14...30 DC; (cULus - Class 2 source required)                                                                        |                  |
| Min. insulation resistance         | [MΩ]                   | 100; (500 V DC)                                                                                                      |                  |
| Protection class                   |                        | III                                                                                                                  |                  |
| Reverse polarity protection        |                        | yes                                                                                                                  |                  |
| Inputs / outputs                   |                        |                                                                                                                      |                  |
| Number of inputs and outputs       |                        | Number of analog outputs: 1                                                                                          |                  |
| Outputs                            |                        |                                                                                                                      |                  |
| Total number of outputs            |                        | 1                                                                                                                    |                  |
| Output signal                      |                        | analog signal                                                                                                        |                  |
| Number of analog outputs           |                        | 1                                                                                                                    |                  |
| Analog current output              | [mA]                   | 4...20                                                                                                               |                  |
| Max. load                          | [Ω]                    | 550; (Ub = 24 V; (Ub - 13 V) / 20 mA)                                                                                |                  |
| Overload protection                |                        | yes                                                                                                                  |                  |
| Measuring/setting range            |                        |                                                                                                                      |                  |
| Measuring range                    |                        | -0.99...4 bar                                                                                                        | -14.4...58 psi   |
| Analog start point                 |                        | -0.99...1 bar                                                                                                        | -14.4...14.5 psi |
| Analog end point                   |                        | 0.26...4 bar                                                                                                         | 3.7...58 psi     |
| In steps of                        |                        | 0.01 bar                                                                                                             | 0.1 psi          |
|                                    |                        |                                                                                                                      | 1 kPa            |
| Accuracy / deviations              |                        |                                                                                                                      |                  |
| Repeatability                      | [% of the span]        | < ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)                                                       |                  |
| Characteristics deviation          | [% of the span]        | < ± 0,6; (Turn down 1:1 , linearity, incl. hysteresis and repeatability , limit value setting to DIN EN IEC 62828-1) |                  |
| Linearity deviation                | [% of the span]        | < ± 0,5; (Turn down 1:1)                                                                                             |                  |
| Hysteresis deviation               | [% of the span]        | < ± 0,1; (Turn down 1:1)                                                                                             |                  |
| Long-term stability                | [% of the span]        | < ± 0,1; (Turn down 1:1; per year)                                                                                   |                  |
| Temperature coefficient zero point | [% of the span / 10 K] | < ± 0,1; (0...80 °C)                                                                                                 |                  |
| Temperature coefficient span       | [% of the span / 10 K] | < ± 0,2; (0...80 °C)                                                                                                 |                  |
| Reaction times                     |                        |                                                                                                                      |                  |
| Max. response time analog output   | [ms]                   | 3                                                                                                                    |                  |
| Software / programming             |                        |                                                                                                                      |                  |
| Parameter setting options          |                        | Zero point; span                                                                                                     |                  |
| Interfaces                         |                        |                                                                                                                      |                  |
| Communication interface            |                        | EPS                                                                                                                  |                  |
| Operating conditions               |                        |                                                                                                                      |                  |
| Ambient temperature                | [°C]                   | -25...80                                                                                                             |                  |
| Storage temperature                | [°C]                   | -40...100                                                                                                            |                  |
| Protection                         |                        | IP 67                                                                                                                |                  |

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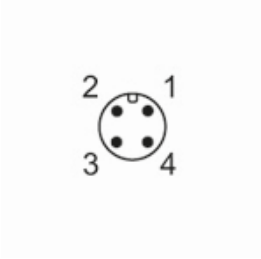
| Tests / approvals    |                           |                     |
|----------------------|---------------------------|---------------------|
| EMC                  | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD   |
|                      | EN 61000-4-3 HF radiated  | 10 V/m              |
|                      | EN 61000-4-4 Burst        | 2 kV                |
|                      | EN 61000-4-6 HF conducted | 10 V                |
| Shock resistance     | DIN IEC 68-2-27           | 50 g (11 ms)        |
| Vibration resistance | DIN IEC 68-2-6            | 20 g (10...2000 Hz) |

| Mechanical data          |                                                                                                          |     |
|--------------------------|----------------------------------------------------------------------------------------------------------|-----|
| Weight                   | [g]                                                                                                      | 533 |
| Material                 | stainless steel (1.4404 / 316L); PEI; FKM                                                                |     |
| Materials (wetted parts) | ceramics (99.9 % Al2O3); stainless steel (1.4435 / 316L); surface characteristics: Ra < 0,4 / Rz 4; PTFE |     |
| Min. pressure cycles     | 100 million                                                                                              |     |
| Process connection       | threaded connection G 1 external thread sealing cone                                                     |     |

| Remarks       |                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------|
| Remarks       | The 3-A qualification is only valid if adapters with 3-A qualification are used for installation. |
| Pack quantity | 1 pcs.                                                                                            |

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

